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| **Less emphasis on:** | **More emphasis on:** |
|  | **Standards for Mathematical Practice**   * + - Describe mathematical “habits of mind”     - Standards for mathematical proficiency: reasoning, problem solving, modeling, decision making, and engagement     - Connect with content standards in each grade |
| **Numbers & Operations**   * Modeling and comparing rational numbers * Using ratio and proportion * Appling GCF and LCM * Operations with rational numbers * Evaluating numerical expressions | **Numbers & Operations**   * Working with radicals and integer exponents * Operations with and using numbers in scientific notation * Using rational numbers to approximate irrational numbers |
| **Measurement**   * Performing conversions within the metric and customary system | **Measurement** |
| **Geometry**   * Finding area, surface area and volume | **Geometry**   * Understanding congruence and similarity using rotations, reflections and translations * Using informal arguments to establish facts about angles |
| **Algebraic Concepts**   * Finding missing elements in patterns * Using the concept of equality to demonstrate an understanding of the inverse properties of numbers & the properties of equality | **Algebraic Concepts**   * Defining, evaluating and comparing functions * Using & solving linear equations with rational coefficients * Constructing function models (function notation is not required) * Comparing two functions represented in different ways * Interpreting rate as slope * Using equations of linear models to solve problems * Analyzing and solving systems of linear equations |
| **Data Analysis & Probability**   * Using sampling techniques to gather data * Comparing data sets graphically and numerically * Stem-and-leaf & box-and-whisker plots * Effects of extreme values * Finding probability, combinations and permutations * Finding missing elements in patterns | **Data Analysis & Probability**   * Construct and interpret scatter plots for bivariate data * Informally fit a line to data that has a linear association * Displaying frequencies and relative frequencies in a two way table and understanding patterns of association * Analyzing and solving systems of linear equations |